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APPLICATION NO.	ICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/280,567	09/280,567 03/30/1999		THOMAS FRANK BUMOL	0409020136	5988	
25885	7590	12/01/2003	EXAMINER			
ELI LILLY AND COMPANY				BRANNOCK, MICHAEL T		
PATENT DIVISION P.O. BOX 6288				ART UNIT	PAPER NUMBER	
INDIANAPOLIS, IN 46206-6288				1646	34	
				DATE MAILED: 12/01/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)					
		09/280,56	57	BUMOL ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Michael E		1646					
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence address					
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a popriod for reply is specified above, the maximum statutory per ret to reply within the set or extended period for reply will, by streeply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no evo- reply within the state riod will apply and wi atute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) day: ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1)	Responsive to communication(s) filed on 2	5 July 2003.							
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is no	on-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5) 6) 7)	Claim(s) 4,5,7-35 and 40-43 is/are pending in the application. 4a) Of the above claim(s) 4,5 and 7-35 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 40-43 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
•		id/or election is	equilomont.						
	ion Papers	-!							
•	The specification is objected to by the Exam The drawing(s) filed on <u>25 July 2003</u> is/are: Applicant may not request that any objection to	a)⊠ accepte the drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).					
111	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the								
	under 35 U.S.C. §§ 119 and 120	Examiner. IV	ne the attached Office	7,00,011 01 1011111 1 1 0 102.					
12) \(\begin{array}{c} & \cdot \\ & \cdot \	Acknowledgment is made of a claim for force All b) Some * c) None of: 1. Certified copies of the priority docume application from the International Bursche the attached detailed Office action for a Acknowledgment is made of a claim for domince a specific reference was included in the 7 CFR 1.78. 1. The translation of the foreign language acknowledgment is made of a claim for domince as a claim for domination of the first sentence of the foreign language acknowledgment is made of a claim for domination of the first sentence of the f	ents have been tents have been tents have been tents and the certical estic priority under the tents sentence provisional appestic priority under the tents and tents are the tents and tents are the tents and tents are the tent	n received. In received in Application received in Application to the the three to the three to the three to the three to the specification of the specification of the three	on No ed in this National Stage d. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific					
Attachmen	rt(s)								
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No((PTO-413) Paper No(s) atent Application (PTO-152)					

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DETAILED ACTION

Status of Application: Claims and Amendments

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 23, 2003 has been entered.

Applicant is notified that the amendments put forth on 7/23/03, have been entered in full.

Previously pending claims 1-3, 6, 36-39 are canceled. Non elected claims 4, 5, 7-35 have been withdrawn from consideration, as set forth previously. New claims 40-43 have been added.

Response to Amendment

Applicant is notified that any outstanding rejection or objection that is not expressly maintained in this Office action has been withdrawn in view of Applicant's amendments.

Priority

Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 119e as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or

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provisional application); the disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

Applicant's reliance on a priority date of 5/20/98 based on the prior application 60/086074 is not supported by an enabling disclosure of the instantly claimed invention in the 60/086074 application. No specific teachings about the use of FLINT proteins in the treatment of liver disease can be found. At page 36 the specification merely presents to the artisan an invitation to try to find compounds that bind TNFRsol and modify its activities.

A valid claim to priority can, however, be found on page 42 of Application 60/099,643, filed 9/9/98.

New Rejection:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 40-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication 2002/0065210, which claims priority to provisional application 60/094,640 filed July 30, 1998, in view of Nagata et al. Science, 267(1449-1456)1995.

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The instantly claimed methods derive from the discovery that FLINT proteins (e.g. SEQ ID NO: 6 and 8) can disrupt the FasL-Fas receptor interaction, see page 6, L26-30 of the instant specification for example. The FasL-Fas receptor interaction is well established in the art as being a key mediator of apoptosis in a variety of cell types, see the Abstract of Nagata et al., and particularly of apoptosis of liver cells in hepatitis, see the second full paragraph of col 3 of page 1454 of Nagata et al. US Patent Application Publication 2002/0065210 discloses that a protein that they term "Decoy Receptor 3" or "DcR3", and is 100% identical to the mature form of SEQ ID NO: 6, that can inhibit FasL-Fas receptor induced apoptosis, see page 5, paragraph 0064. This teaching is also found in the 60/094,640 application at page 23. The 2002/0065210 publication teaches that DcR3 can be employed therapeutically to regulate apoptosis by Fas ligand, e.g. as an antagonist to inhibit Fas induced apoptosis (paragraphs 0124 and 0126, see also page 23 of 60/094,640).

However, the 2002/0065210 publication does not specifically mention the Fas-meditated apoptosis that occurs in the liver during the pathogenesis of the disorders recited in the instantly claimed methods. However, this Fas-mediated involvement in the liver was well established in the art at the time the 60/099,643 application was filed, as exemplified by Nagata et al., discussed above. Thus, it would be obvious to one of ordinary skill in the art, at the time the invention was made, and with reasonable expectation of success, to therapeutically employ a polypeptide having an amino acid sequence 100% identical to SEQ ID NO: 6 so as to inhibit Fas-mediated apoptosis, as taught by the 2002/0065210 publication, and to do so to treat individuals suffering from disorders of the liver, required by the claims, wherein apoptosis was well established to underlie such disorders, and in particular Fas-mediated apoptosis as taught by

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Nagata et al. The motivation to do so is provided by the 2002/0065210 publication wherein it is taught that DcR3 is believed to be a decoy receptor that inhibits Fas-mediated apoptosis (e.g. page 6, L26-30) and by Nagata who teach that Fas mediates apoptosis of hepatocytes during hepatitis (see page 1454, col 3, second full paragraph).

Conclusion

No claims are allowable.

Please note the new official fax number below:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Brannock, Ph.D., whose telephone number is (703) 306-5876. The examiner can normally be reached on Mondays through Fridays from 10:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, Ph.D., can be reached at (703) 308-6564.

Official papers filed by fax should be directed to (703) 872-9306. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

MB

SUPERVISORY PATENT EXAMINER

November 26, 2003